$$\begin{array}{c|c}
H & O \\
N & S - CH_2 \\
N & O - (CH_2)_3 - OMe
\end{array}$$

=> => file caplus FILE 'CAPLUS' ENTERED AT 16:36:58 ON 09 FEB 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 9 Feb 2005 VOL 142 ISS 7 FILE LAST UPDATED: 8 Feb 2005 (20050208/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que L1 STR
$$\frac{N}{N}$$
 $\frac{1}{N}$ $\frac{1}{N}$

Structure attributes must be viewed using STN Express query preparation.

L2 78 SEA FILE=REGISTRY SSS FUL L1
L3 135 SEA FILE=CAPLUS L2 AND SODIUM
L4 7 SEA FILE=CAPLUS L3 AND CRYSTAL?

=> d l4 1-7 fbib abs hitstr

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:1016027 CAPLUS

DN 142:23317

TI Preparation of 1,3,4-benzotriazepin-2-ones as CCK2 (gastrin) receptor antagonists for the treatment of gastrointestinal disorders

IN Abdel-Magid, Ahmed F.; Cohen, Judith H.

10/786,556

PA Johnson & Johnson, USA SO PCT Int. Appl., 150 pp.

CODEN: PIXXD2

DT Patent LA English FAN.CNT 1

GΙ

LHIA.	CNI	1																
	PATENT NO.						D	DATE			APPL	I CAT	ION	. O <i>l</i> .		D.	ATE	
					-						-							
ΡI	WO 2004101533			A1		20041125		WO 2004-US12914						20040427				
		W :	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
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		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
			ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
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			SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,
			SN,	TD,	TG													
										1	US 2	003-4	4696!	Ì	P 2	00309	512	
	US	2005	0269	11		A1		2005	0203	Ì	US 2	004-8		20040427				
										US 2	003-4	4696]	P 20	20030512			

$$R^{1}$$
 N
 N
 N
 N

 R^4

Ι

AB 1,3,4-Benzotriazepinones or 1,3,4-benzotriazepin-2-one N-oxides I [R1, R5 = H, alkyl, alkoxy, alkylthio, HO2C, OHC, alkylcarbonyl, alkoxycarbonyl, O2N, F3C, etc.; R2, R4 = H, (un)substituted alkyl with up to three substitutions of carbon atoms for N, O, or S; R3 = (CR11R12)mX(CR13R14)pR9; R9 = H, (un)substituted alkyl, Ph, naphthyl, pyridinyl, benzimidazolyl, indazolyl, quinolinyl, isoquinolinyl, tetrahydroisoquinolinyl, etc.; R11, R12, R13, R14 = H, alkyl; W = N or N(:O); m = 0-4; p = 0-2] such as II are prepared as gastrin (CCK2) receptor antagonists for the treatment of

ΙI

ΙT

RN

CN

gastrointestinal disorders. E.g., condensation of cyclohexyl (2-aminophenyl) ketone and Et hydrazinoacetate hydrochloride, cyclocondensation with triphosgene, N-alkylation with 1-bromo-3,3-dimethyl-2-butanone, hydrolysis with sodium hydroxide and acidification, and EDC/HOBt-mediated amidation with Me 3-aminobenzoate yields II. for the inhibition of gastrin receptors in rat stomach are given for most of the example compds.; data for competition expts. with human gastrin expts. are given for some of the example compds. E.g., II inhibits gastrin receptors in rat stomach with a pKb value of 8.55 ± 0.32 . Crystal structures of the sodium, potassium, choline, and tert-butylamine salts of one of the invention compds. are determined 117976-89-3, Rabeprazole 177795-59-4, (S)-Rabeprazole 177795-60-7, (R)-Rabeprazole RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (codrug; preparation of 1,3,4-benzotriazepin-2-ones as CCK2 (qastrin) receptor antagonists for the treatment of gastrointestinal disorders) 117976-89-3 CAPLUS 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} H & O \\ N & S - CH_2 \\ \hline N & O - (CH_2)_3 - OMe \end{array}$$

RN 177795-59-4 CAPLUS
CN 1H-Benzimidazole, 2-[(S)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 177795-60-7 CAPLUS

CN 1H-Benzimidazole, 2-[(R)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L4
     ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
     2004:716152 CAPLUS
ΑN
     141:212799
DN
ΤI
     Preparation of the polymorphic crystalline form Z of rabeprazole
     Venkatraman, Sundaram; Reddy, Manne Satyanarayana; Eswaraiah, Sajja;
ΙN
     Bhaskar, Bolugoddu Vijaya; Reddy, Pingili Ramchandra; Rajiv, Ireddy; Babu,
     Thirunava Karasu Ananda
     Dr: Reddy's Laboratories Ltd., India
PΑ
SO
     Eur. Pat. Appl., 17 pp.
     CODEN: EPXXDW
DT
     Patent
LΑ
     English
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                              DATE
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                         ____
                                _____
                                            _____
     EP 1452533
PΙ
                                20040901
                                           EP 2004-4420
                          A1
                                                                    20040226
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                             IN 2003-MA156
                                                                 A 20030228
     US 2004180935
                          Α1
                                20040916
                                             US 2004-786556
                                                                    20040225
                                             IN 2003-MA156
                                                                 A 20030228
     CA 2459012
                          AA
                                20040828
                                            CA 2004-2459012
                                                                    20040226
                                             IN 2003-MA156
                                                                 A 20030228
     The crystalline form Z of rabeprazole sodium is prepared and
AB
     characterized by its X-ray diffraction pattern, and pharmaceutical dosage
     forms containing the crystalline form Z are prepared
IT
     117976-90-6P, Rabeprazole sodium
     RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of the polymorphic crystalline form Z of rabeprazole sodium
     117976-90-6 CAPLUS
RN
CN
     1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-
     pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)
```

Na

$$\begin{array}{c|c}
H & O \\
N & S - CH_2 \\
N & O - (CH_2)_3 - OMe
\end{array}$$

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
T.4
     ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
AN
     2004:525965 CAPLUS
DN
     141:76745
ΤI
     Method for the preparation of coated drugs and dietary supplements that
     include substances with a concentration gradient in the coating
     Petereit, Hans-Ulrich; Meier, Christian; Roth, Erna
IN
PA
     Roehm GmbH & Co. Kg, Germany
SO
     Ger. Offen., 14 pp.
     CODEN: GWXXBX
DT
     Patent
LΑ
     German
FAN.CNT 1
```

	PATENT NO.						D	DATE		1	APPL	ICAT	ION I	DATE				
					-													
ΡI	DE 10260919			A1		20040701		1	DE 2	002-	1026	20021220						
	WO	2004	0582	25		A1		2004	0715	Ī	WO 2	003-1		20031018				
		W:						AU,										
			CO,	CR,	CU,	CZ,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,
								IS,										
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PG,
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,	TR,
			TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw				
		RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
								ΙE,										
			BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
										1	DE 2	002-	1026	0919	7	A 20	0021	220

AB The invention concerns the preparation of coatings for drugs and dietary supplements in a way that the concentration of the coating ingredients decrease or increase from the inner side of the coating to the outer side; the concentration gradient is achieved by spraying the components in form of solns. or dispersions from two or more nozzles; the components mix with each other during spraying and after evaporation a film is formed around the core. Cores are drug crystals, tablets, granules, pellets etc. Acid-sensitive substances can be coated with (meth)acrylate copolymers containing anionic groups in a way that the layers close to the cores contain neutralized anionic groups or a base; the outer layers contain increasing amts. of non-neutralized polymer or decreasing amts. of base. Similarly, base- or dye-sensitive substances can be coated by avoiding the critical component next to the core and increasing its concentration to the outer layer. Thus a first spraying fluid contained (g): Eudragit L30 D-55 300; 1N sodium hydroxide 250; water 1050. The second spraying fluid included (g): Eudragit L30 D-55 300; 1N sodium hydroxide 250; pigment suspension 750; water 300. The pigment suspension was composed of (g): talc 100; titanium dioxide 50; color pigment 50; polyethylene glycol 6000 50; trisodium acetate citrate 5.5 hydrate 62; antifoaming agent 1; water 687.

IT 117976-89-3, Rabeprazole
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(acid-sensitive, coating of; method for preparation of coated drugs and dietary supplements that include substances with a concentration gradient in coating)

RN 117976-89-3 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
H & O \\
N & S - CH_2 \\
N & O - (CH_2)_3 - OMe
\end{array}$$

```
L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
```

AN 2003:796694 CAPLUS

DN 139:307762

TI Preparation of polymorphic crystalline forms of rabeprazole sodium

IN Reddy, Manne Satyanarayana; Eswaraiah, Sajja; Bolugoddu, Vijaya Bhaskar; Pingili, Ramchandra Reddy; Ganta, Madhusudhan Reddy

PA Reddy's Laboratories Limited, India; Cord, Janet I.

SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.						KIND DATE					I CAT	ION I	DATE					
ΡI	WO	WO 2003082858			A1		20031009		Ţ	WO 2	003-1	US93	20030325						
		W :	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	ΝZ,	OM,	
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	
			TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW						
		RW:	-	-				MZ,					•	•	•	•		•	
								TM,											
								ΙE,											
			ΒF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
											IN 2	002-1	MA20	A 20020326					
	EΡ	1487	820			A1		2004	1222		EP 2	003-	7214	71	20030325				
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
										:	IN 2	002-1	MA20'	7	1	A 20020326			
										1	WO 2	003-1	JS93	V	1 20	20030325			

AB Methods of making polymorphic forms of rabeprazole **sodium** [i.e., 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]-methyl]sulfinyl]-lH-benzimidazole **sodium**] are presented in which: (a) one dissolves 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-lH-benzimidazole in a Cl-4 alkanol (e.g., methanol) containing **sodium** hydroxide, distilling the solvent from the reaction solution; and (b) adding chlorinated Cl-3 hydrocarbon (e.g., methylene chloride) solvent(s)to the residual mass obtained in step (a).

IT 117976-89-3, Rabeprazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(in the preparation of polymorphic crystalline forms of rabeprazole sodium)

10/786,556

RN 117976-89-3 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c}
H & O \\
N & S - CH_2 \\
N & O - (CH_2)_3 - OMe
\end{array}$$

IT 117976-90-6P, Rabeprazole sodium

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polymorphic crystalline forms of rabeprazole sodium)

RN 117976-90-6 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)

● Na

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
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AN 2003:610242 CAPLUS

DN 139:154933

TI Transmucosal delivery of proton pump inhibitors

IN Widder, Ken; Hall, Warren; Olmstead, Kay

PA Santarus, Inc., USA

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN CNT 1

L. TATA	CIAI	Τ.																		
	PAT	CENT :	NO.			KIN	D	DATE			APPL	ICAT		DATE						
				-			_													
PΙ	WO 2003063840				A2		20030807 20030904		1	WO 2	003-1		20030127							
	WO 2003063840					A3														
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
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			GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,		
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			KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,		
			FI.	FR.	GB	GR	нп	TE	TΤ	TJI	MC	NT.	РТ	SE	C T	CK.	ים ידי	םם .		

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BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                       US 2002-351909P
                                                           P 20020125
                                       US 2002-374761P
                                                              20020422
US 2004006111
                     Α1
                           20040108
                                       US 2003-353143
                                                              20030127
                                       US 2002-351909P
                                                           Ρ
                                                              20020125
                                       US 2002-374761P
                                                           P
                                                              20020422
EP 1469839
                     A2
                           20041027
                                       EP 2003-705972
                                                              20030127
    R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
        IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                       US 2002-351909P
                                                           P
                                                              20020125
                                       US 2002-374761P
                                                              20020422
                                       WO 2003-US2659
                                                           W
                                                              20030127
```

AΒ The present invention relates to pharmaceutical compns. and methods for transmucosal delivery of proton pump inhibitors. In one embodiment, the pharmaceutical composition of the present invention comprises a core which comprises an antacid, and an outer layer surrounding the core. The outer layer contains a therapeutically effective amount of a proton pump inhibitor. In another embodiment, the pharmaceutical composition of the present invention comprises an outer layer which comprising a unidirectional film, and an inner layer which contains a therapeutically effective amount of a proton pump inhibitor. In yet another embodiment, the pharmaceutical composition of the present invention is a unidirectional tablet for delivery of a proton pump inhibitor across the oral mucosa. In this embodiment, the pharmaceutical composition contains an outer layer which contains a pharmaceutically acceptable water impermeable layer, and an inner layer which contains a therapeutically effective amount of a proton pump inhibitor. A tablet composition contained in the outer layer; Klucel EXP 10, dicalcium phosphate 10, MgCO3-90S 20, FD&C Lake Red Number 0.1, and Compitol-888 1 mg/tablet; the inner layer comprised omeprazole 20, MgCO3-90S 20, Klucel EXP 10, and Mg stearate 0.6 mg/tablet.

IT 117976-89-3, Rabeprazole 117976-90-6, Pariprazole
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(transmucosal delivery of proton pump inhibitors)

RN 117976-89-3 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

RN 117976-90-6 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} N & \text{Me} \\ \hline \\ S - CH_2 & \text{N} \end{array}$$

Na

```
L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
```

AN 2001:338762 CAPLUS

DN 134:362292

TI Methods of determining individual hypersensitivity to a pharmaceutical agent from gene expression profile

IN Farr, Spencer

PA Phase-1 Molecular Toxicology, USA

SO PCT Int. Appl., 222 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT I	NO.			KIND DATE				i	APPL	ICAT		DATE						
						-		-											
ΡI	WO 2001032928			A2		2001	0510	1	WO 2	000-1		20001103							
	WO 2001032928				A3		2002	0725											
	W :	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,		
		HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,		
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,		
		SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,		
		YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,		
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,		
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG				
									Į	JS 1	999-	1653	98P]	P 1	.9991105			
									US 2000-196571P P 2000041										

AB The invention discloses methods, gene databases, gene arrays, protein arrays, and devices that may be used to determine the hypersensitivity of individuals to a given agent, such as drug or other chemical, in order to prevent toxic side effects. In one embodiment, methods of identifying hypersensitivity in a subject by obtaining a gene expression profile of multiple genes associated with hypersensitivity of the subject suspected to be hypersensitive, and identifying in the gene expression profile of the subject a pattern of gene expression of the genes associated with hypersensitivity are disclosed. The gene expression profile of the subject may be compared with the gene expression profile of a normal individual and a hypersensitive individual. The gene expression profile of the subject that is obtained may comprise a profile of levels of mRNA or cDNA. The gene expression profile may be obtained by using an array of nucleic acid probes for the plurality of genes associated with hypersensitivity. The expression of the genes predetd. to be associated with hypersensitivity is directly related to prevention or repair of toxic damage at the tissue, organ or system level. Gene databases arrays and apparatus useful for identifying hypersensitivity in a subject are also disclosed.

IT 117976-89-3, Rabeprazole

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

$$H$$
 N
 S
 CH_2
 Me
 O
 CH_2
 3
 3
 O
 Me

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L4
     ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ΑN
     1996:644880 CAPLUS
DN
     126:46780
     Preparation and absolute configurations of optical isomers of
ΤI
     sodium 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-
     yl]methylsulfinyl]-1H-benzimidazole (E3810)
     Nochi, Shigeharu; Kawai, Takatoshi; Kawakami, Yoshiyuki; Asakawa, Naoki; Ueda, Norihiro; Hayashi, Kenji; Souda, Shigeru
ΑU
CS
     Tsukuba Res. Labs., Eisai Co., Ltd., Ibaraki, 300-26, Japan
SO
     Chemical & Pharmaceutical Bulletin (1996), 44(10), 1853-1857
     CODEN: CPBTAL; ISSN: 0009-2363
PB
     Pharmaceutical Society of Japan
DT
     Journal
LΑ
     English
OS
     CASREACT 126:46780
AΒ
     The optical isomers of sodium 2[[4-(3-methoxypropoxy)-3-
     methylpyridin-2-yl]methylsulfinyl]-2H-benzimidazole (E3810), a proton pump
     inhibitor, were separated by HPLC and their absolute configurations were
determined by
     x-ray crystallog. anal.
TΤ
     184713-30-2P
     RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic
     preparation); PREP (Preparation)
        (crystallog.; preparation and absolute configurations of optical
        isomers of sodium 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-
        yl]methylsulfinyl]-1H-benzimidazole (E3810))
RN
     184713-30-2 CAPLUS
CN
     1H-Benzimidazole, 2-[[4-(3-methoxypropoxy)-3-methyl-2-
     pyridinyl]methyl]sulfinyl]-1-[(phenylmethoxy)methyl]-, (+)- (9CI) (CA
     INDEX NAME)
```

Rotation (+).

IT 117976-90-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PEP (Physical, engineering or chemical process); RCT (Reactant); BIOL (Biological study); PROC (Process); RACT (Reactant or reagent)

(preparation and absolute configurations of optical isomers of **sodium** 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810))

RN 117976-90-6 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} N & \text{Me} \\ \hline \\ S - \text{CH}_2 & \text{NH} \end{array}$$

Na

IT 184713-27-7P 184713-28-8P 184713-29-9P

RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)

(preparation and absolute configurations of optical isomers of **sodium** 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810))

RN 184713-27-7 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-1-[(phenylmethoxy)methyl]- (9CI) (CA INDEX NAME)

RN 184713-28-8 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-

pyridinyl]methyl]sulfinyl]-1-[[2-(trimethylsilyl)ethoxy]methyl]- (9CI)
(CA INDEX NAME)

N S-CH₂ N O- (CH₂)₃-OMe
$$CH_2-O-CH_2-CH_2-SiMe_3$$

RN 184713-29-9 CAPLUS

CN 1H-Benzimidazole, 1-(methoxymethyl)-2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{Me} \\ & \text{N} \\ & \text{S-CH}_2 \\ & \text{N} \\ & \text{CH}_2\text{-OMe} \end{array}$$

IT 177795-59-4P 177795-60-7P

RL: PNU (Preparation, unclassified); PUR (Purification or recovery); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and absolute configurations of optical isomers of sodium 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810))

RN 177795-59-4 CAPLUS

CN 1H-Benzimidazole, 2-[(S)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 177795-60-7 CAPLUS

CN 1H-Benzimidazole, 2-[(R)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 184713-31-3P 184713-32-4P 184713-33-5P 184713-34-6P 184713-35-7P RL: PRP (Properties); PUR (Purification

RL: PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)

(preparation and absolute configurations of optical isomers of sodium 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810))

RN 184713-31-3 CAPLUS

CN lH-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-1-[(phenylmethoxy)methyl]-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

RN 184713-32-4 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-1-[[2-(trimethylsilyl)ethoxy]methyl]-, (+)-(9CI) (CA INDEX NAME)

Rotation (+).

RN 184713-33-5 CAPLUS

CN 1H-Benzimidazole, 2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-1-[[2-(trimethylsilyl)ethoxy]methyl]-, (-)-(9CI) (CA INDEX NAME)

Rotation (-).

RN 184713-34-6 CAPLUS

CN 1H-Benzimidazole, 1-(methoxymethyl)-2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

RN 184713-35-7 CAPLUS

CN 1H-Benzimidazole, 1-(methoxymethyl)-2-[[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

IT 171440-18-9P 171440-19-0P

RL: PUR (Purification or recovery); SPN (Synthetic preparation); PREP (Preparation)

(preparation and absolute configurations of optical isomers of **sodium** 2-[[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfinyl]-1H-benzimidazole (E3810))

RN 171440-18-9 CAPLUS

CN 1H-Benzimidazole, 2-[(R)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

10/786,556

Na

RN 171440-19-0 CAPLUS

CN 1H-Benzimidazole, 2-[(S)-[[4-(3-methoxypropoxy)-3-methyl-2-pyridinyl]methyl]sulfinyl]-, sodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

Na

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